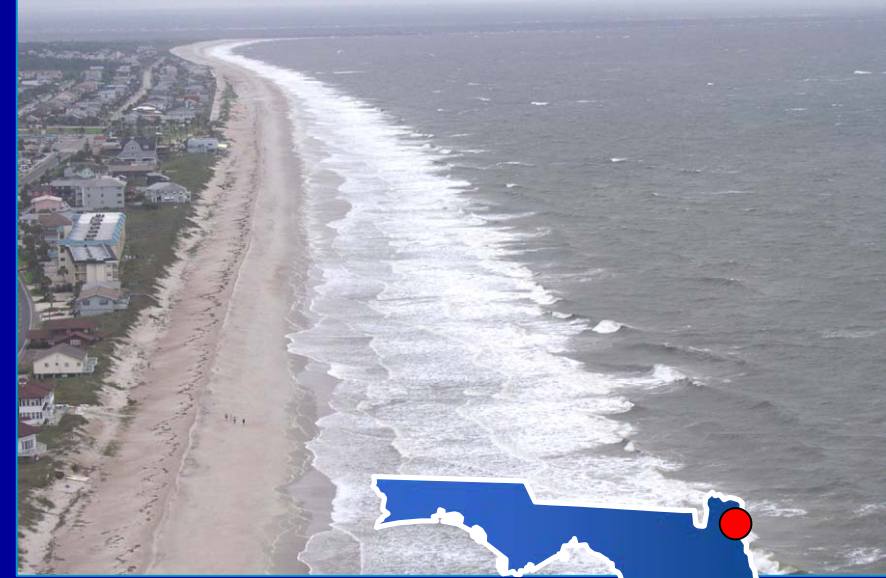
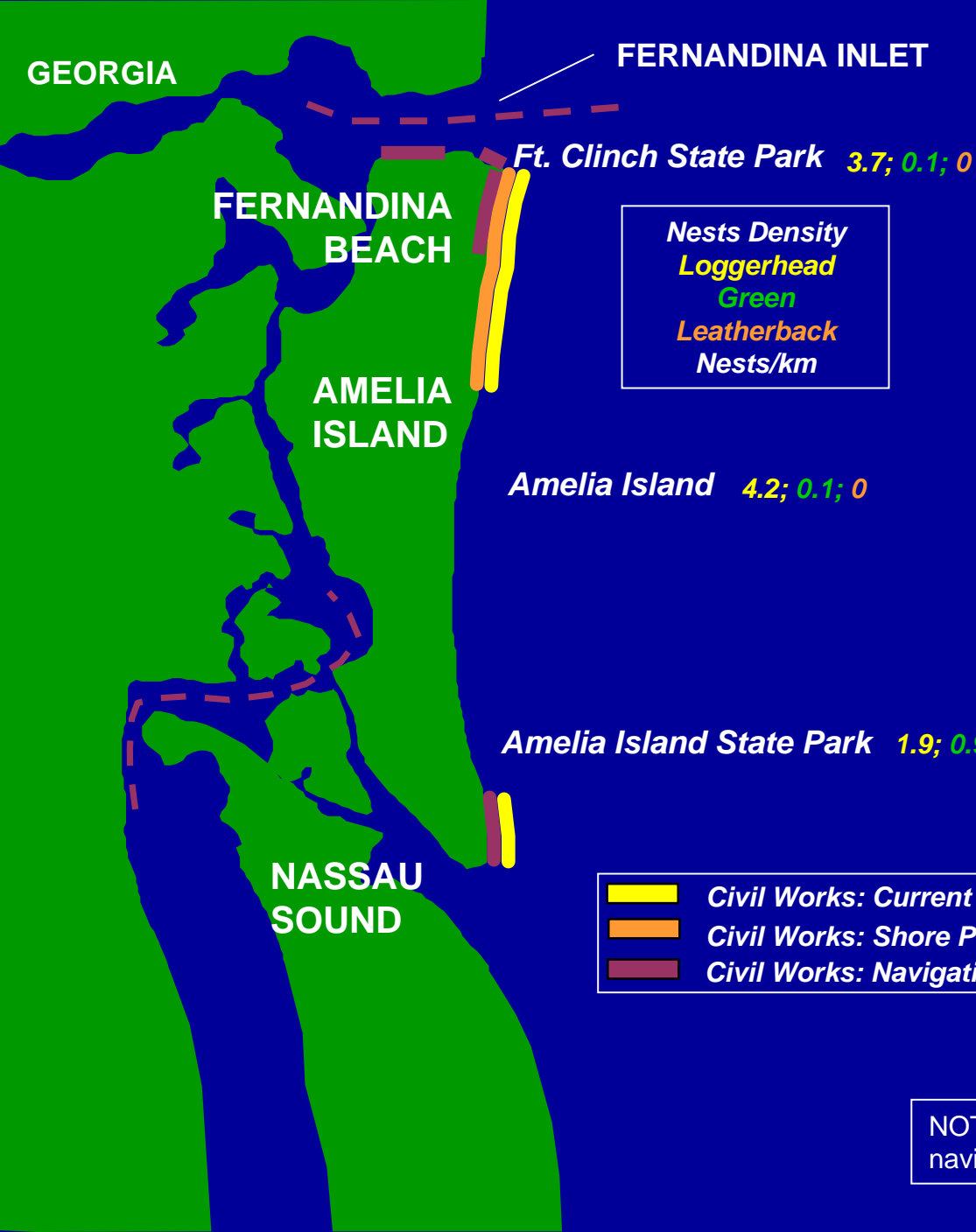


Figure 4: Average Sea Turtle Nesting Density State of Florida

(by County, Reporting Beaches Only, Density Varies Widely Within the County)

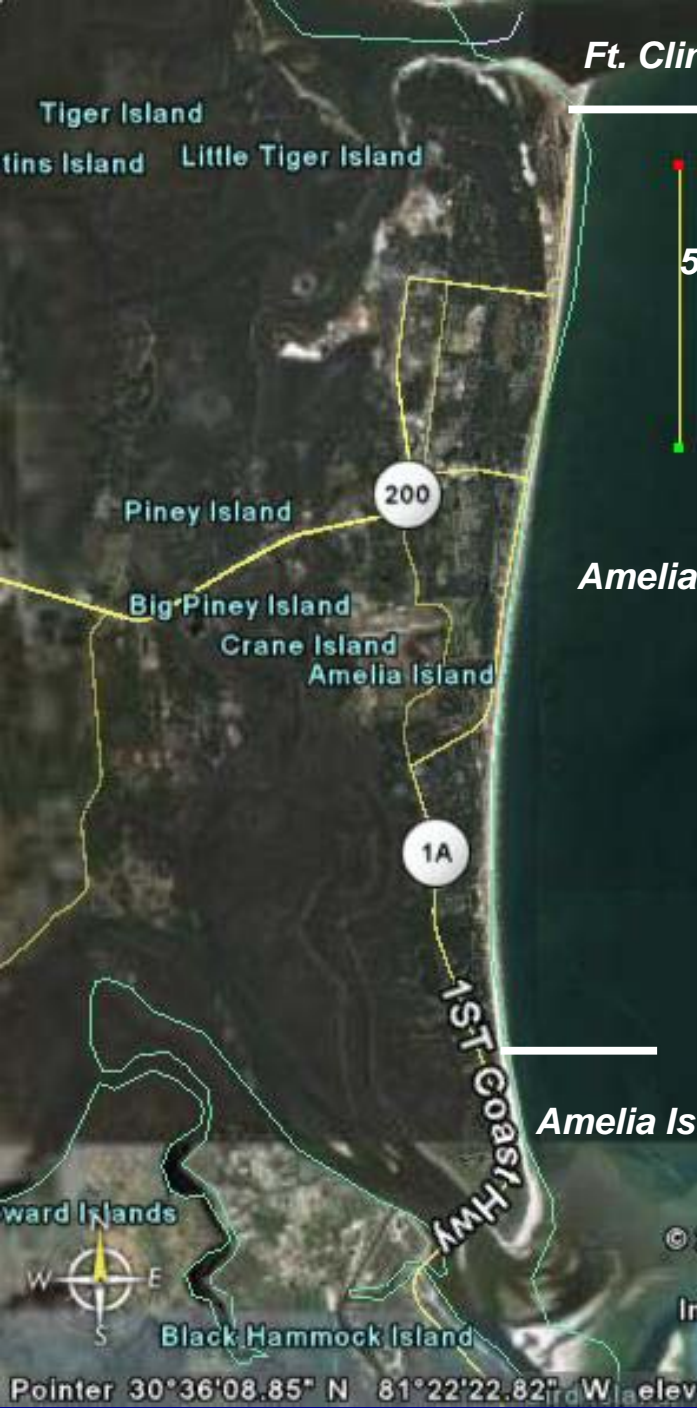


## Nassau County

Atlantic  
Ocean

- Civil Works: Current Shore Protection Project
- Civil Works: Shore Protection Study
- Civil Works: Navigation Dredging & Placement

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.



**Ft. Clinch State Park** 3.7; 0.1; 0

5 km

**Amelia Island** 4.2; 0.1; 0

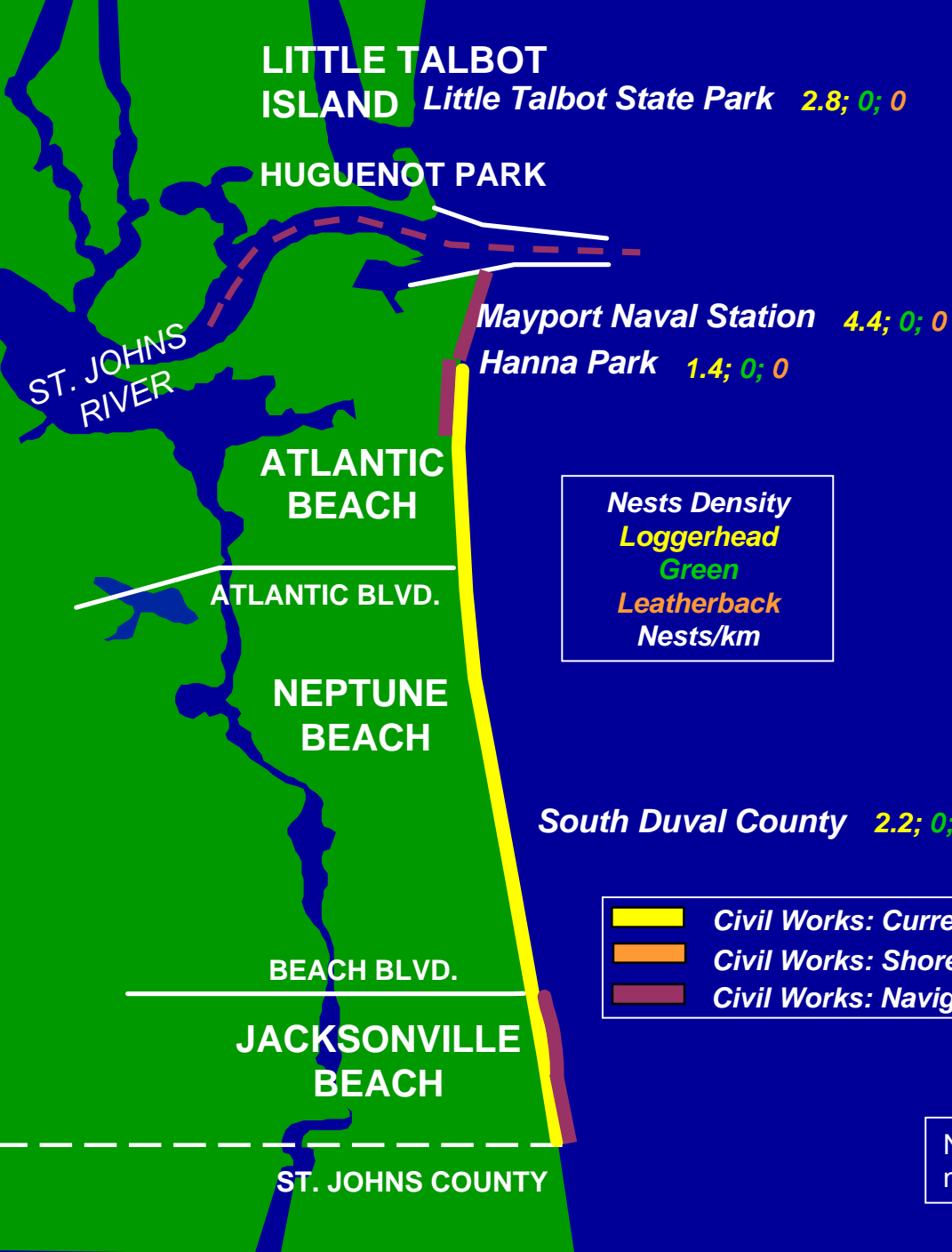
**Amelia Island State Park** 1.9; 0.9; 0

## Average Nesting Density Nassau County

**Loggerhead (79-05);**  
**Green (93-05);**  
**Leatherback (93-05)**  
**Nests/km**

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



*Atlantic Ocean*

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.



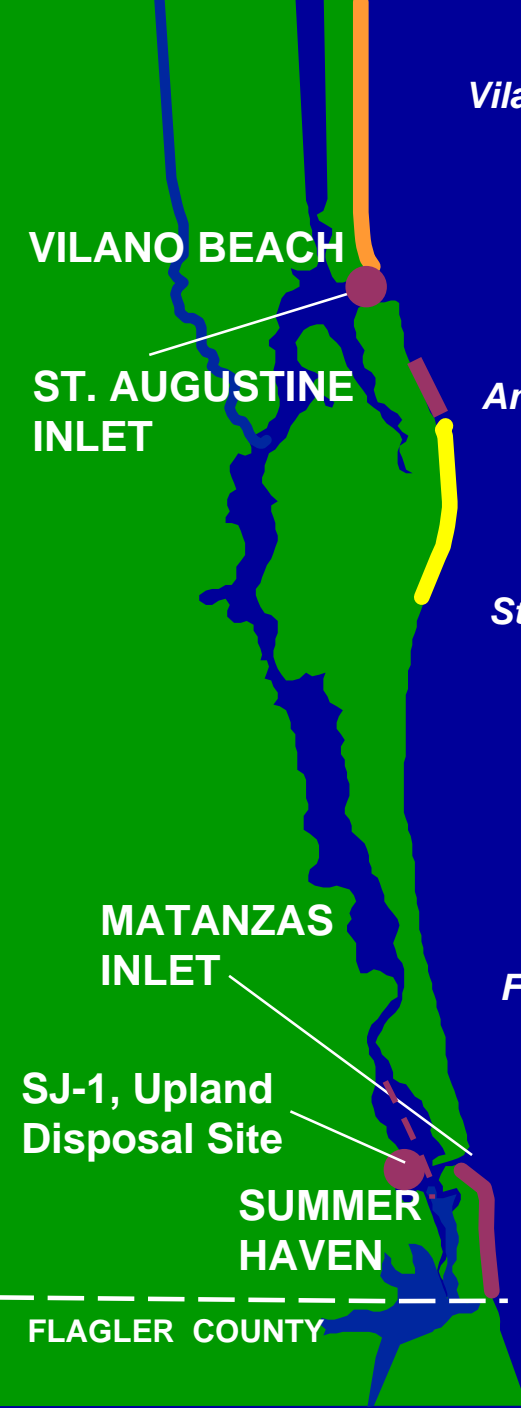


## Average Nesting Density Duval County

*Loggerhead (79-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



Vilano Beach 6.45; 0.2; 0

Nests Density  
Loggerhead  
Green  
Leatherback  
Nests/km

Anastasia State Park 1.2; 0.1; 0

St. Augustine Beach 1.9; 0.1; 0

 Civil Works: Current Shore Protection Project  
 Civil Works: Shore Protection Study  
 Civil Works: Navigation Dredging & Placement

Ft. Matanzas Nat Mon 2.7; 0.2; 0

Ft. Matanzas North 1.2; 0.1; 0

Ft. Matanzas South 5; 0.6; 0.1



*St. Johns County*

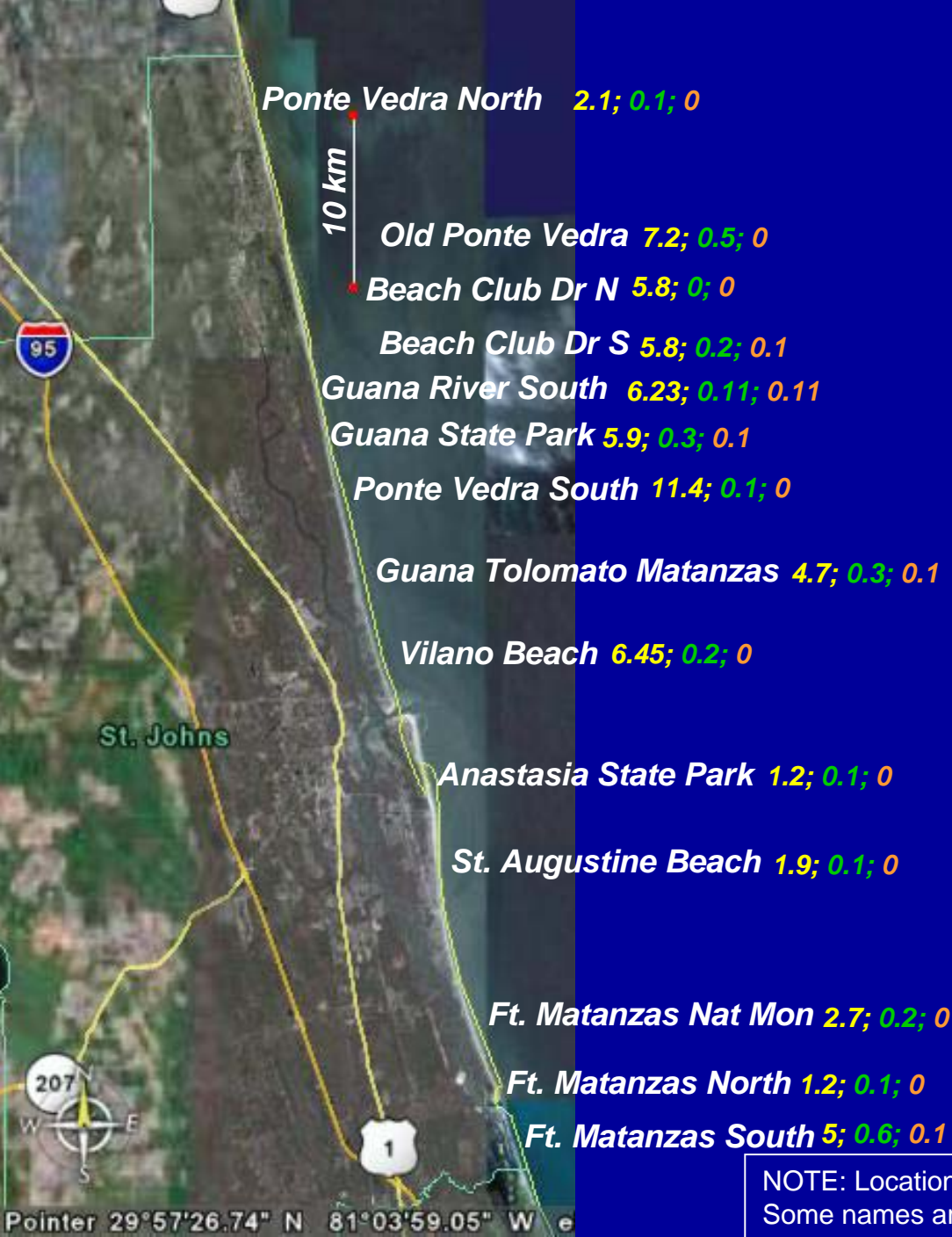
*Atlantic  
Ocean*

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.

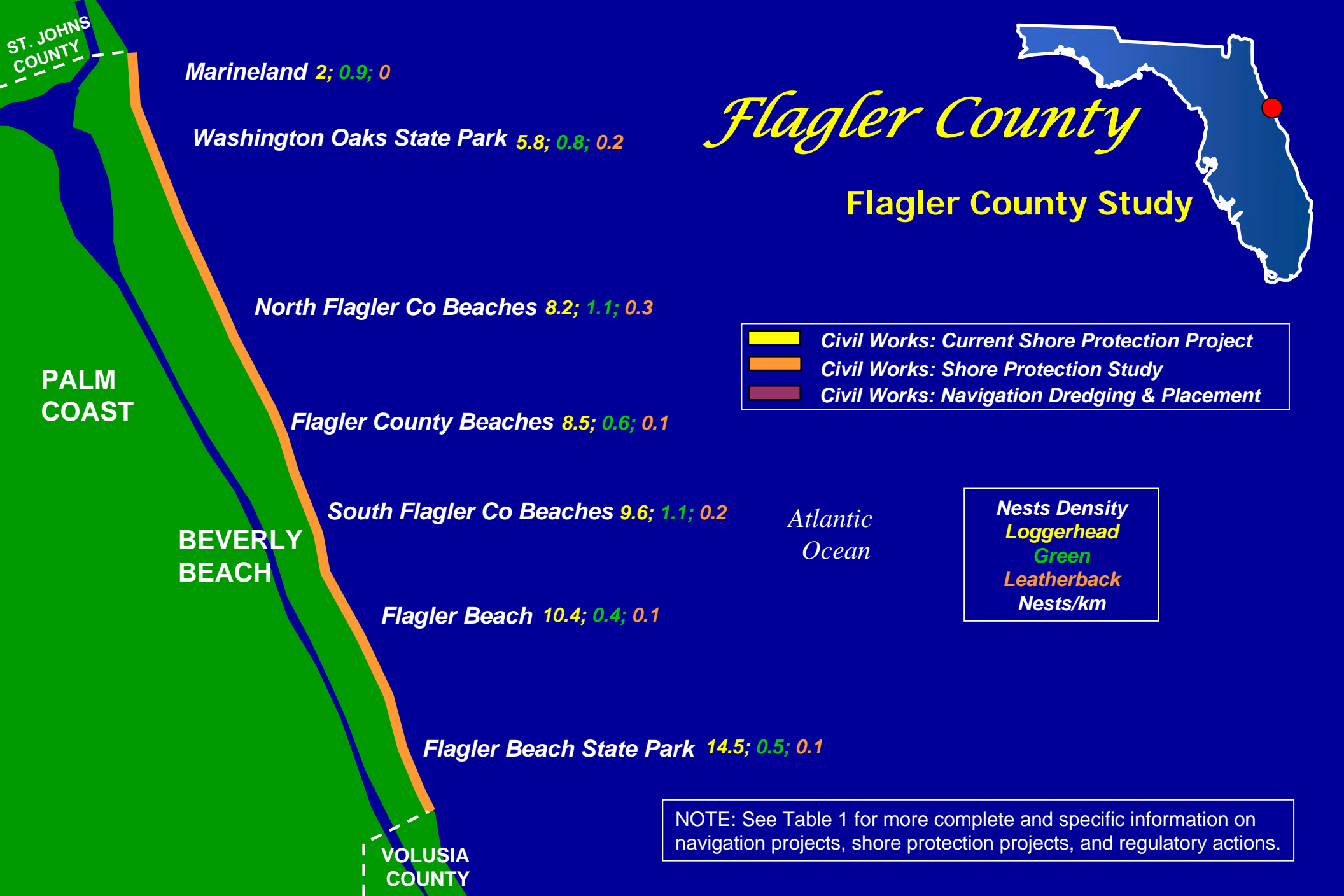
# Average Nesting Density St. Johns County

Loggerhead (79-05);  
Green (93-05);  
Leatherback (93-05)  
Nests/km

Atlantic Ocean



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.







*Marineland* 2; 0.9; 0

*Washington Oaks State Park* 5.8; 0.8; 0.2

5 km

*North Flagler Co Beaches* 8.2; 1.1; 0.3

*Flagler County Beaches* 8.5; 0.6; 0.1

*South Flagler Co Beaches* 9.6; 1.1; 0.2

*Flagler Beach* 10.4; 0.4; 0.1

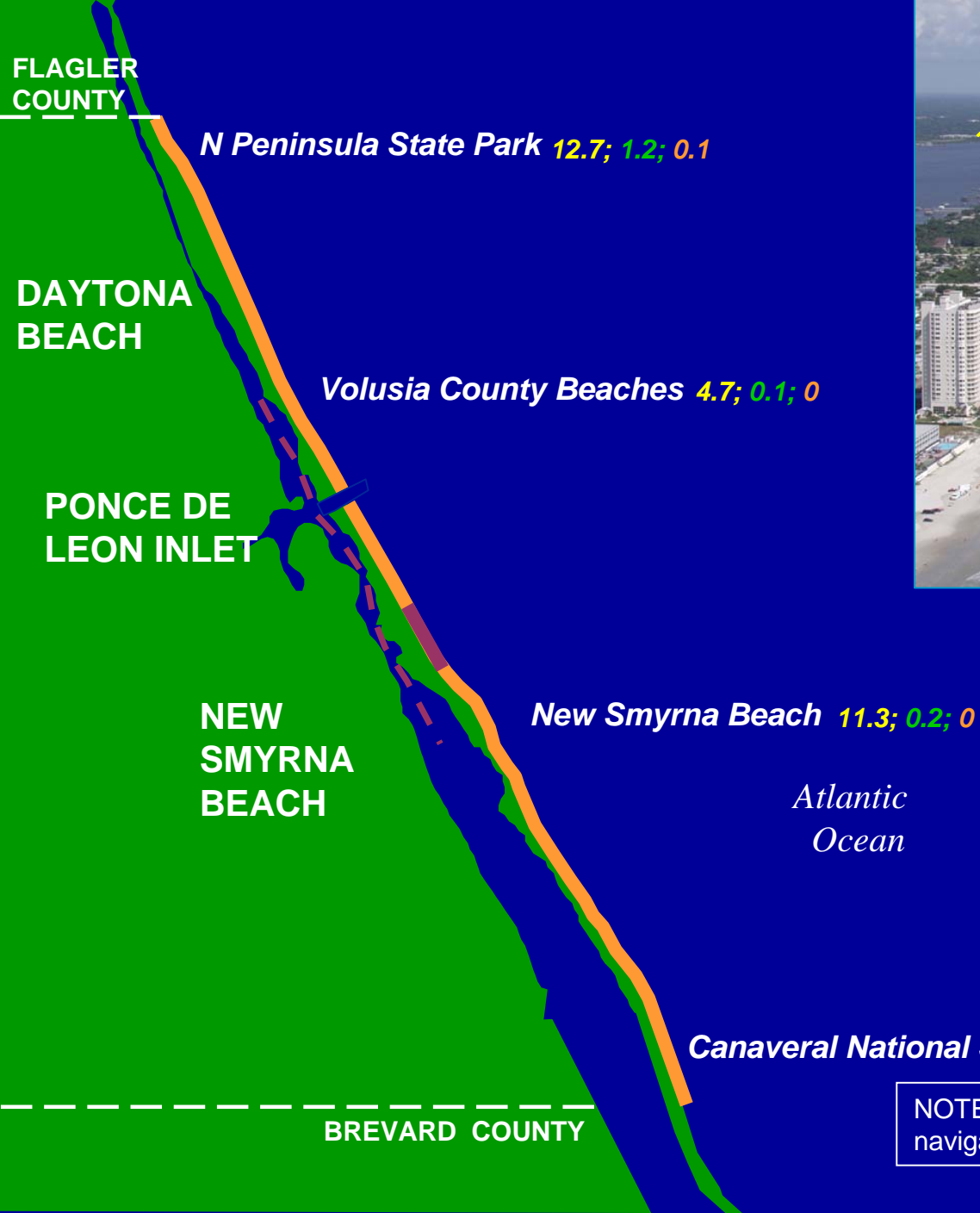
*Flagler Beach State Park* 14.5; 0.5; 0.1

## Average Nesting Density Flagler County

*Loggerhead (79-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.



*N Peninsula State Park* 12.7; 1.2; 0.1

10 km

*Volusia County Beaches* 4.7; 0.1; 0

*New Smyrna Beach* 11.3; 0.2; 0

*Canaveral National Seashore* 68.4; 6.2; 0

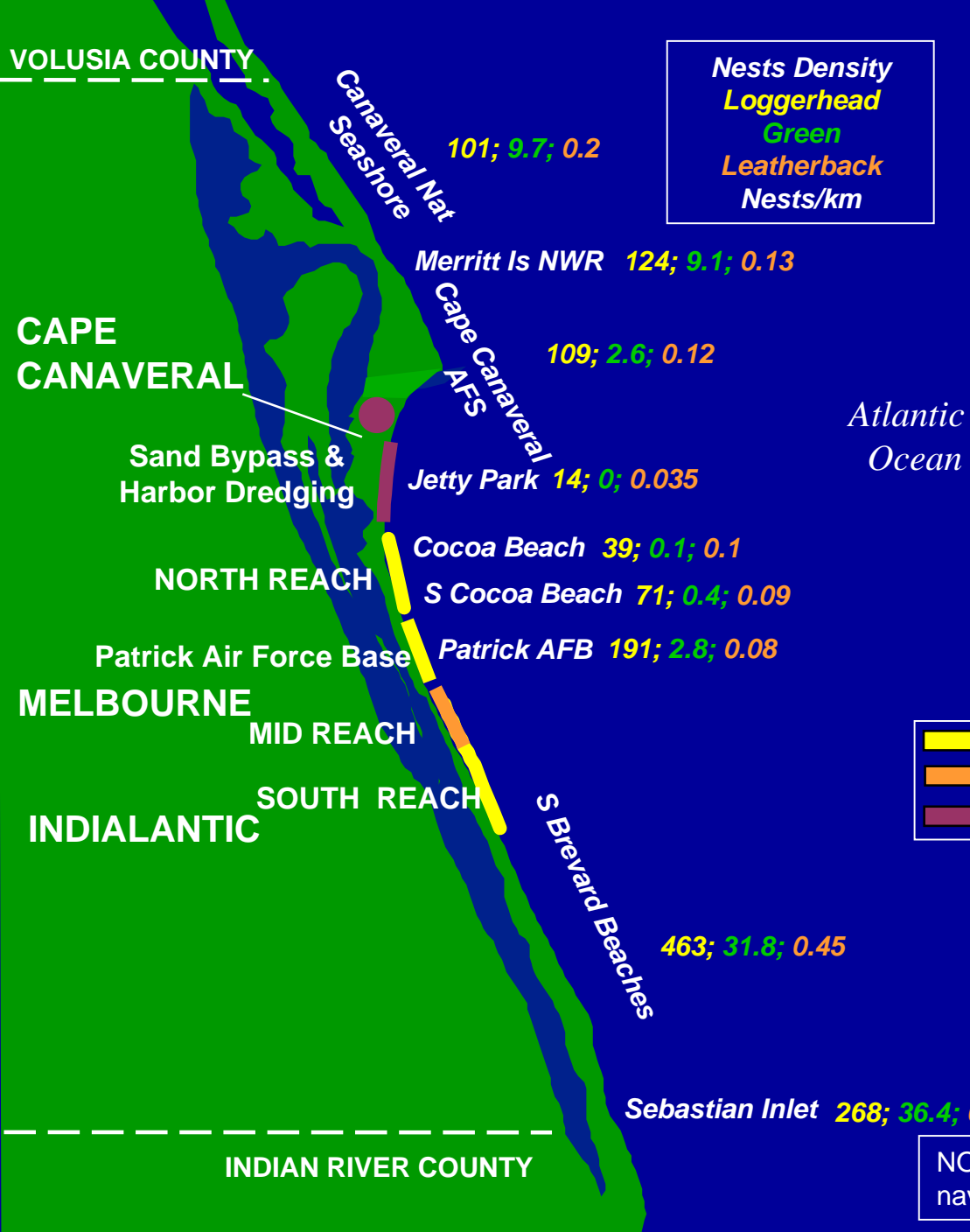
## Average Nesting Density Volusia County

*Loggerhead (85-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.





NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.



# Average Nesting Density Brevard County

*Loggerhead (85-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Atlantic Ocean*



Canaveral Nat  
Seashore

10 km

101; 9.7; 0.2

Merritt Is NWR

124; 9.1; 0.13

Cape Canaveral  
AFS

109; 2.6; 0.12

cape canaveral

Jetty Park

14; 0; 0.035

Cocoa Beach

39; 0.1; 0.1

S Cocoa Beach

71; 0.4; 0.09

Patrick AFB

191; 2.8; 0.08

Brevard

S Brevard Beaches

463; 31.8; 0.45

© 2006 Europa Te  
Image © 2006 Te

1

© 2006 Na Sebastian Inlet

268; 36.4; 0.68

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



# Average Nesting Density Indian River County

*Loggerhead (85-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



-  **Civil Works: Current Shore Protection Project**
-  **Civil Works: Shore Protection Study**
-  **Civil Works: Navigation Dredging & Placement**

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.





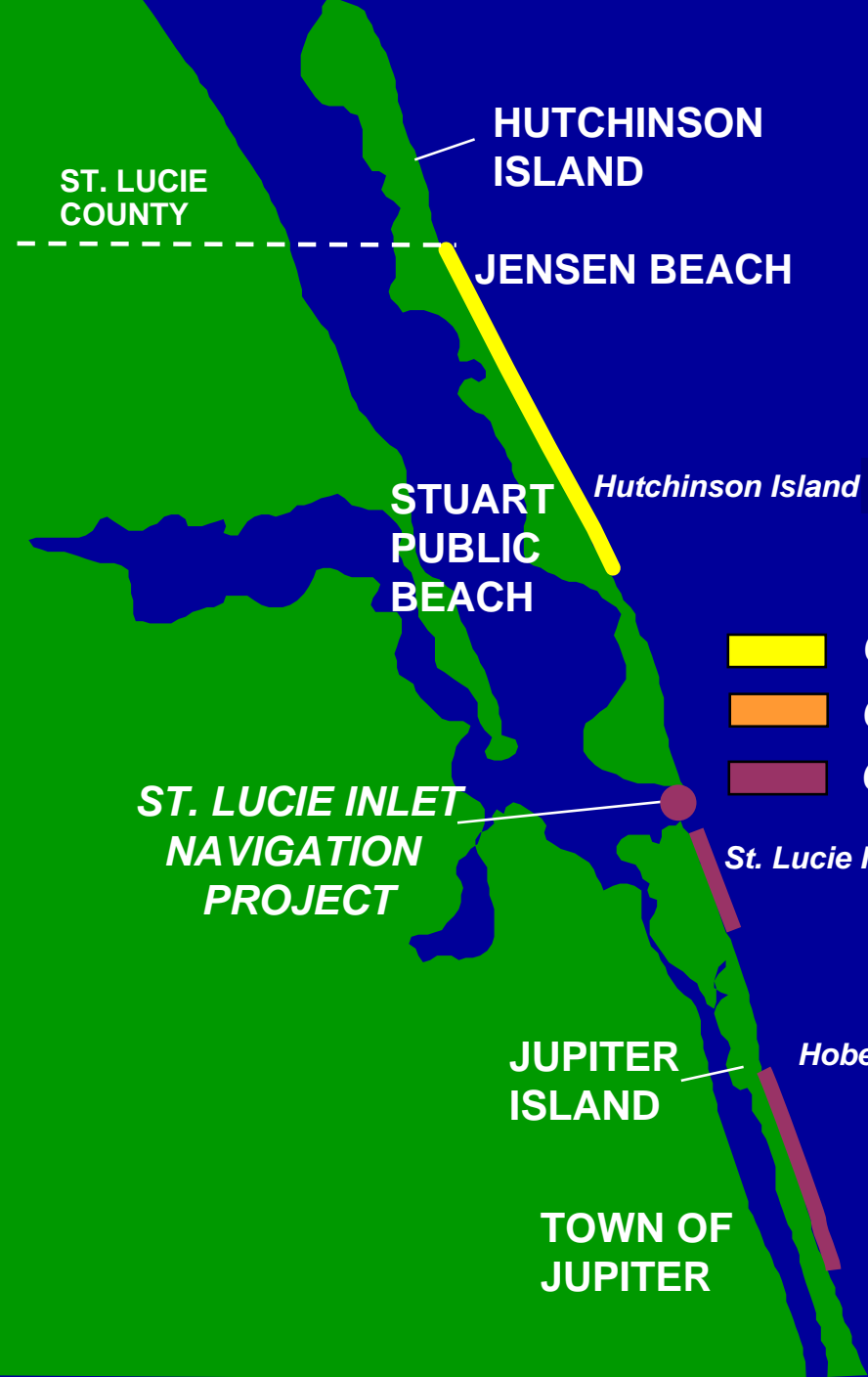
# Average Nesting Density St. Lucie County

*Loggerhead (85-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.





# *Martin County*

Hutchinson Island 151.8; 4.0; 4.1

- Civil Works: Current Shore Protection Project
- Civil Works: Shore Protection Study
- Civil Works: Navigation Dredging & Placement

St. Lucie Inlet State Park 86.8; 3.8; 2.4

Hobe Sound NWR 256.3; 11.5; 5.4

Jupiter Island 390.1; 15.1; 4.7

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.

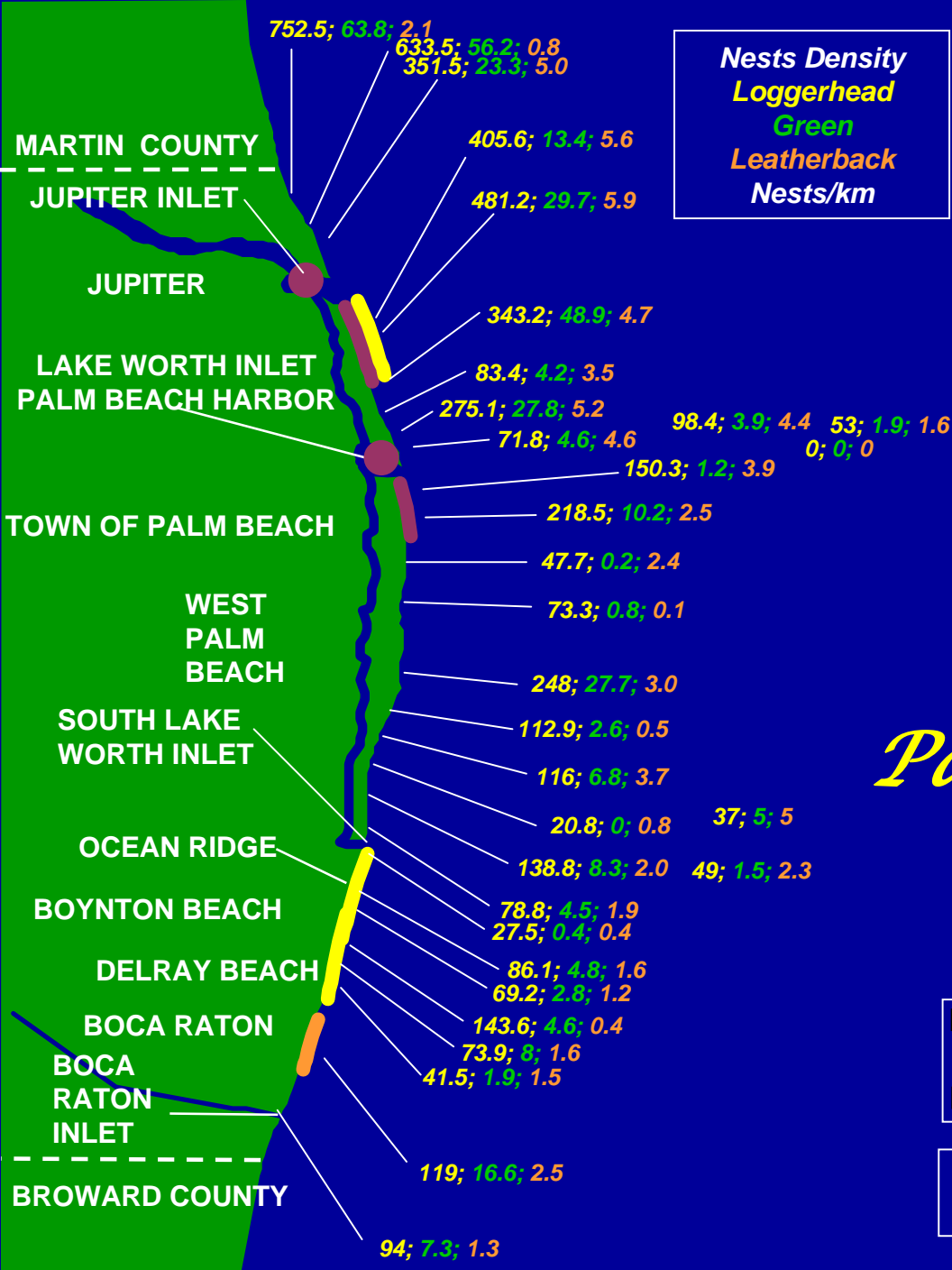


## Average Nesting Density Martin County

*Loggerhead (85-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
**Nests/km**

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



# Palm Beach County

Atlantic  
Ocean



- Civil Works: Current Shore Protection Project
- Civil Works: Shore Protection Study
- Civil Works: Navigation Dredging & Placement

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.





Coral Cove Park 752.5; 63.8; 2.1

Tequesta Beaches 633.5; 56.2; 0.8

Jupiter Inlet Colony 351.5; 23.3; 5.0

5 km

Jupiter

Jupiter Beach/Carlin Park 405.6; 13.4; 5.6

Jupiter/Juno Beach 481.2; 29.7; 5.9

McArthur State Park 343.2; 48.9; 4.7

Ocean Reef Park 83.4; 4.2; 3.5

Singer Island 275.1; 27.8; 5.2

Palm Beach Shores 71.8; 4.6; 4.6

Lake Worth Inlet South Side 150.3; 1.2; 3.9

Palm Beach Shores N 98.4; 3.9; 4.4

Singer Island South 53; 1.9; 1.6

Palm Beach Shores S 0; 0; 0

# Average Nesting Density Palm Beach County Upper

Loggerhead (79-05);

Green (93-05);

Leatherback (93-05)

Nests/km

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.

Atlantic Ocean

Pointer 26°51'40.78" N 79°5





Palm Beach North End 218.5; 10.2; 2.5

Breakers 47.7; 0.2; 2.4

West

Town of Palm Beach 59.5; 1.0; 1.92

Palm Beaches 73.3; 0.8; 0.1

Sloan's Curve 248; 27.7; 3.0

Phipps/Par III 112.9; 2.6; 0.5

Par III / Kreusler 116; 6.8; 3.7

Lake Worth Mun Beach 20.8; 0; 0.8

Kreusler Park 37; 5; 5

South Palm Beach 138.8; 8.3; 2.0

Lantana 49; 1.5; 2.3

Manalapan 78.8; 4.5; 1.9

Ocean Inlet Park 27.5; 0.4; 0.4

Ocean Ridge 86.1; 4.8; 1.6

Boynton Beach 69.2; 2.8; 1.2

# Average Nesting Density Palm Beach County Middle

Loggerhead (79-05);

Green (93-05);

Leatherback (93-05)

Nests/km

Atlantic Ocean

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.

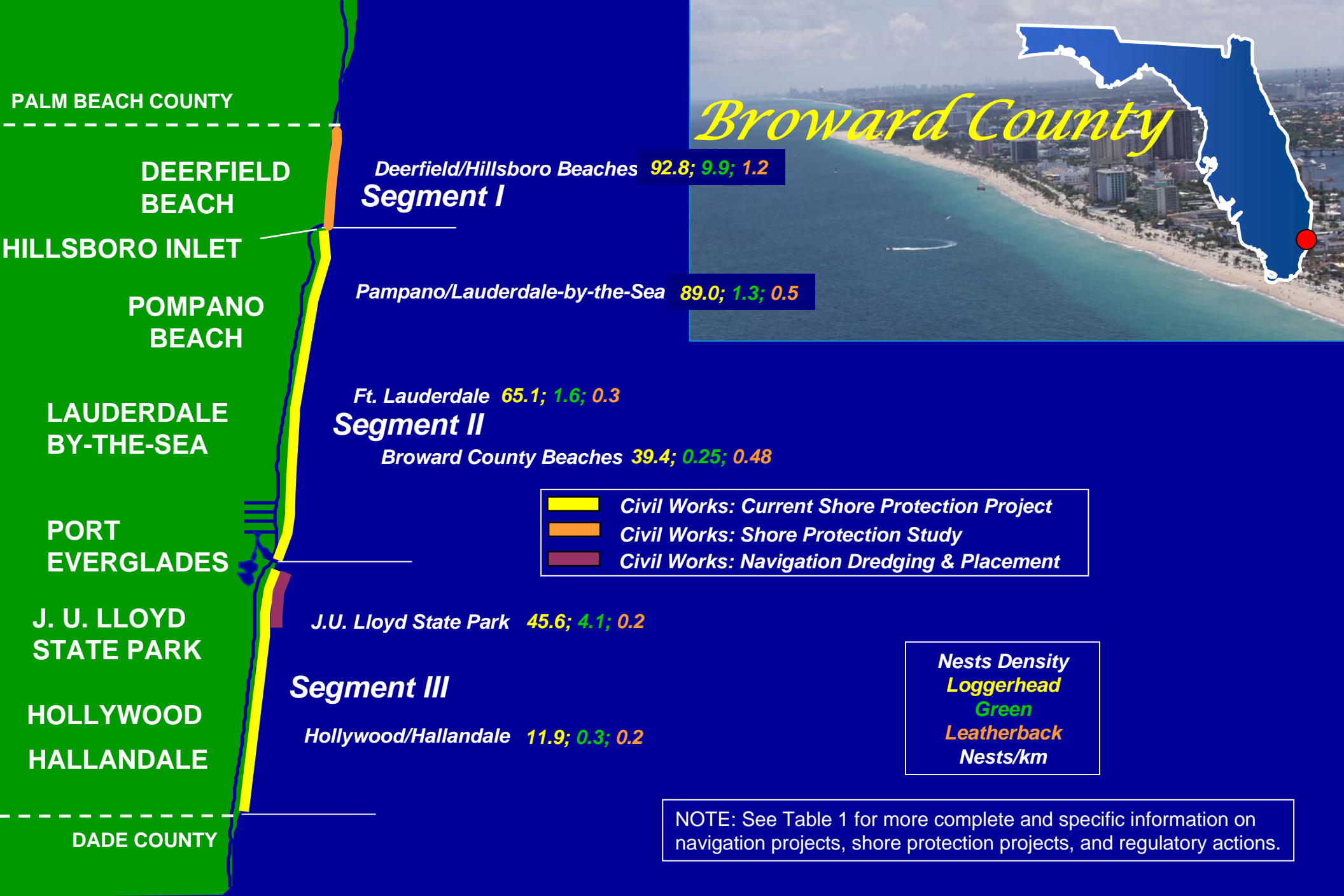


# Average Nesting Density Palm Beach County Lower

*Loggerhead (79-05);  
Green (93-05);  
Leatherback (93-05)*  
Nests/km

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.







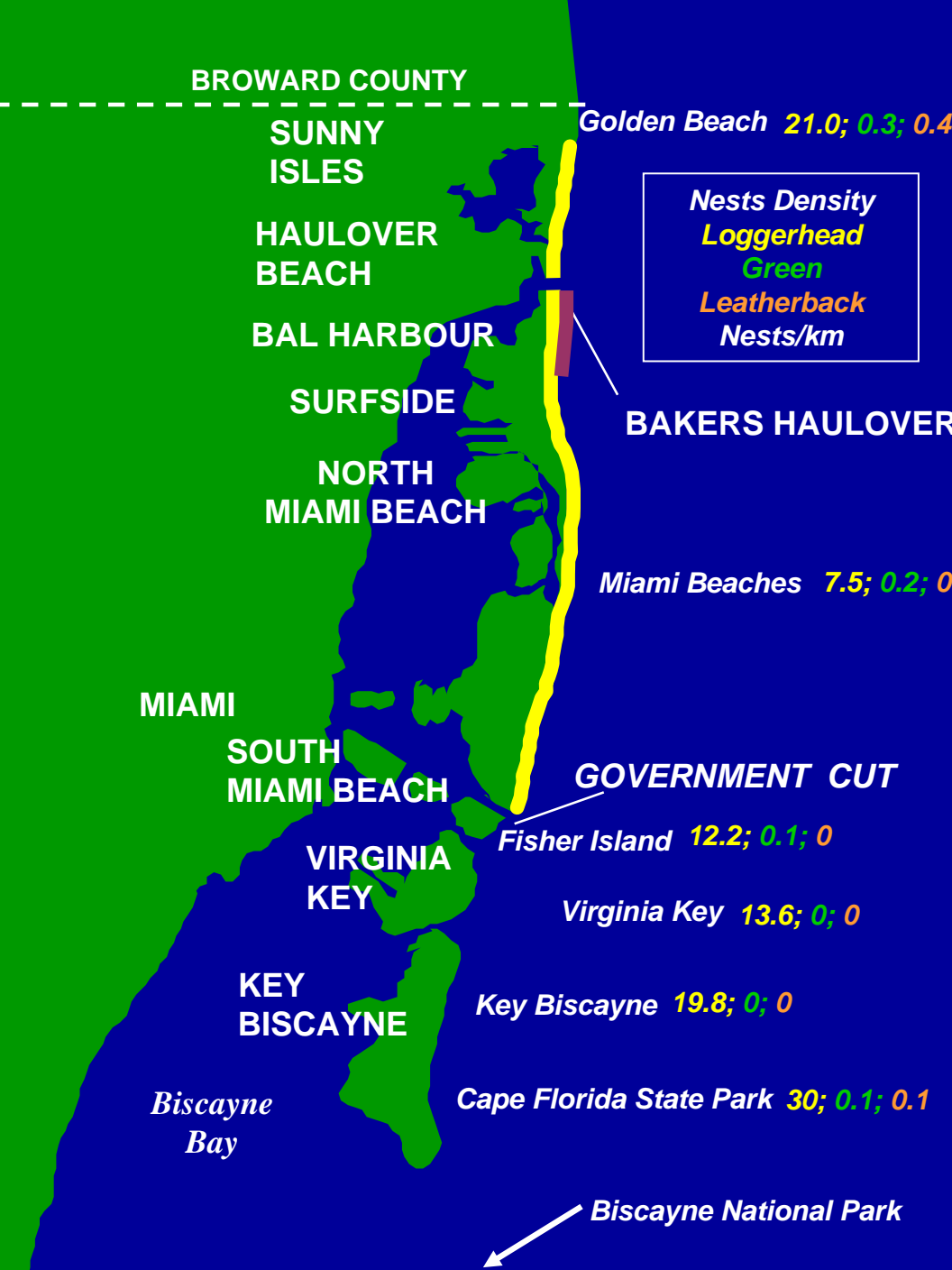
# Average Nesting Density Broward County


*Loggerhead (79-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
**Nests/km**

*Atlantic Ocean*

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.





-  Civil Works: Current Shore Protection Project
-  Civil Works: Shore Protection Study
-  Civil Works: Navigation Dredging & Placement

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.

Atlantic Ocean



# Average Nesting Density Dade County

*Loggerhead (79-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
*Nests/km*

*Atlantic Ocean*

Golden Beach 21.0; 0.3; 0.4

Miami Beaches 7.5; 0.2; 0.1

Fisher Island 12.2; 0.1; 0

Virginia Key 13.6; 0; 0

Key Biscayne 19.8; 0; 0

Cape Florida State Park 30; 0.1; 0.1

Biscayne National Park ; 0; 0

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



US Army Corps  
of Engineers  
Jacksonville District

# KEY WEST

SMATHERS BEACH  
SEGMENT II, 3000 FT.

PROPOSED  
GROIN

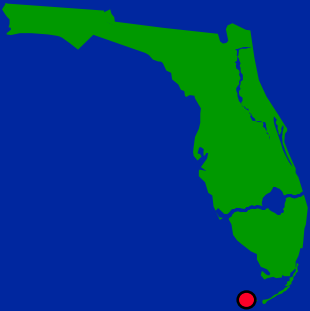
PROPOSED GROIN



Atlantic  
Ocean

- AUTHORIZED STUDY
- AUTHORIZED PROJECT
- CONSTRUCTED (last renourishment, non-Federal)
- MAINT. PLACEMENT

## LOCATION MAP



MONROE  
COUNTY

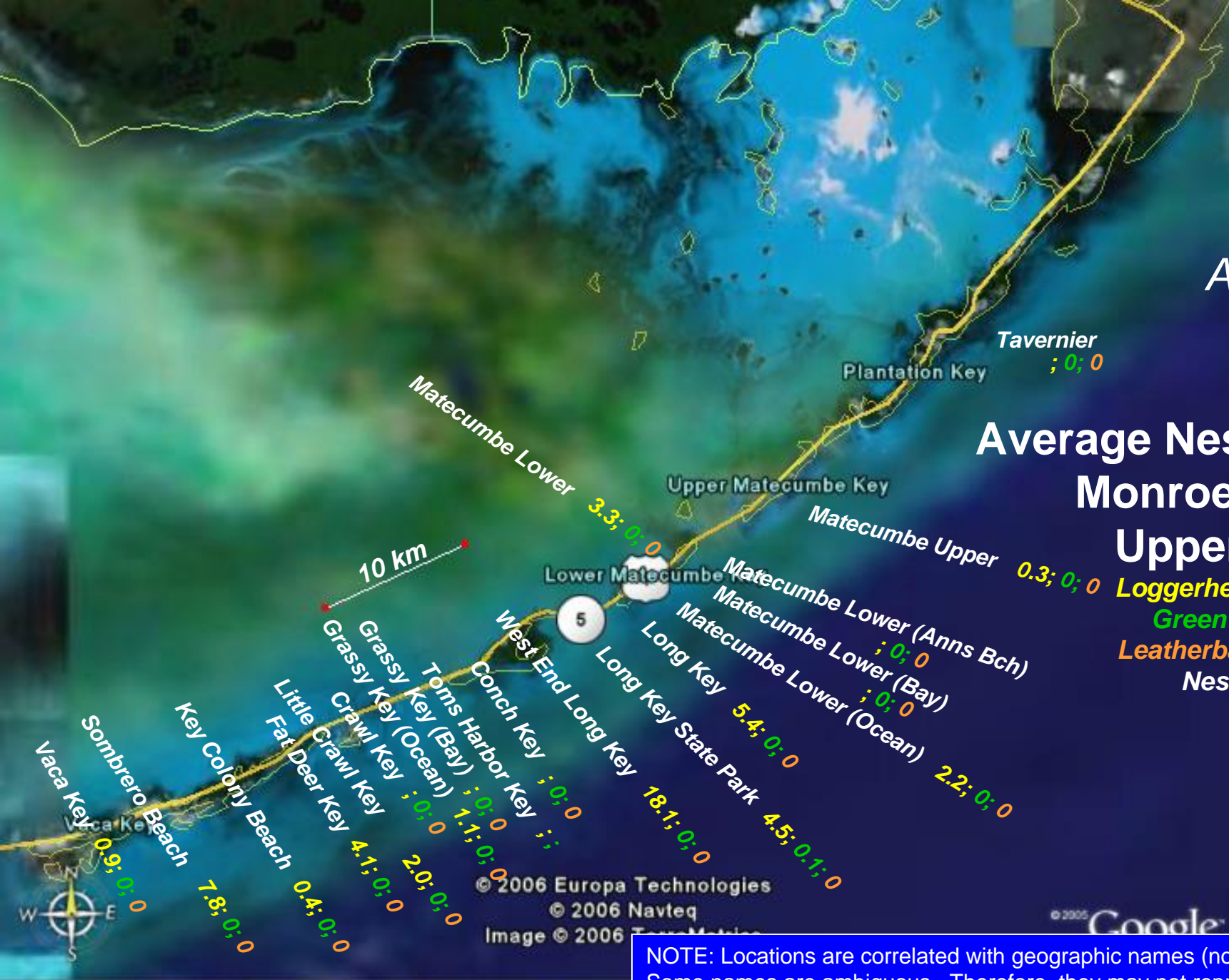
Key West Beaches 0.3; 0; 0

Nests Density  
Loggerhead  
Green  
Leatherback  
Nests/km

MONROE  
COUNTY

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.





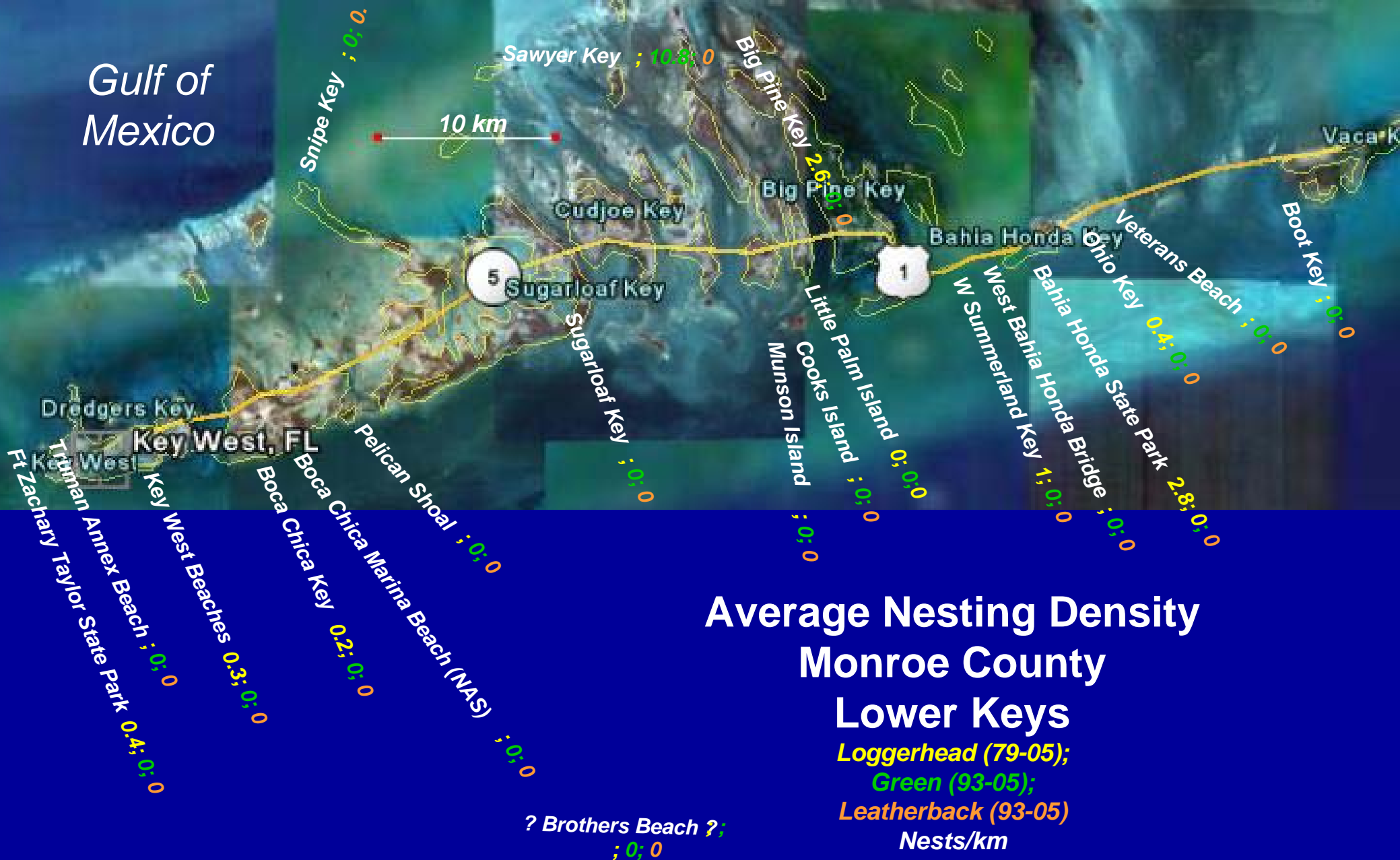
Atlantic Ocean

## Average Nesting Density Monroe County Upper Keys

Loggerhead (79-05);  
Green (93-05);  
Leatherback (93-05)  
Nests/km

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.

Gulf of Mexico



## Average Nesting Density Monroe County Lower Keys

Loggerhead (79-05);

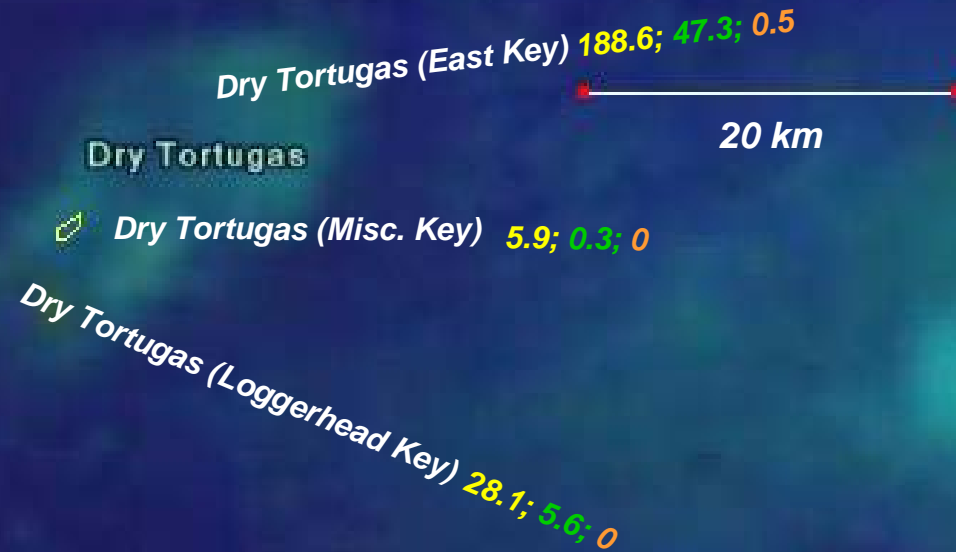
Green (93-05);

Leatherback (93-05)

Nests/km

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.

# Gulf of Mexico



## Average Nesting Density Monroe County Western Keys

**Loggerhead (79-05);**

**Green (93-05);**

**Leatherback (93-05)**

**Nests/km**

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



Barefoot Beach Preserve 17.1; 0; 0  
Wiggins Pass State Park 16.2; 0; 0  
Vanderbilt Beach 13.5; 0; 0  
Clam Pass Park 29.3; 0; 0

Parkshore Beach 21.7; 0; 0

Naples Beaches 6.3; 0; 0

Keewaydin Island North 12; 0.1; 0

Keewaydin Island 17.5; 0; 0

Keewaydin Island South 19.6; 0; 0

Sea Oat Island 22.4; 0; 0

Coconut Island 1.3; 0; 0

Marco Island 6.2; 0; 0

Cape Romano 30.3; 0; 0

10,000 Islands NWR 14.7; 0.3; 0

Everglades NP (Gulf Isls) 36.2; 0; 0

## Average Nesting Density Collier County

5 km

Loggerhead (79-05);  
Green (93-05);  
Leatherback (93-05)  
Nests/km

Gulf of  
Mexico

Marco Island, FL

© 2006 Europa Technologies

Google

Streaming ||||| 100%

Eye alt 41.04 mi

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.

27.8; 0.4; 0 Gasperilla Island South  
13.1; 0.2; 0 Gasparilla Island State Park

5.5; 0; 0 Cayo Costa State Park

- Civil Works: Current Shore Protection Project
- Civil Works: Shore Protection Study
- Civil Works: Navigation Dredging & Placement

11.1; 0.1; 0 North Captive State Park

Gulf of Mexico

12; 0; 0 Captiva Island

15.2; 0.1; 0 Sanibel Island West

5.9 Sanibel Island

3.2; 0; 0 Sanibel Island East

2.7; 0; 0

6.3; 0.1; 0 Estero Island

21.8; 0; 0 Lovers Key State Park

5.7; 0; 0 Lovers Key

21.1; 0; 0 Big Hickory Island

Bonita Beach

Nests Density  
Loggerhead  
Green  
Leatherback  
Nests/km

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.





Gasparilla Island South 27.8; 0.4; 0

Gasparilla Island State Park 13.1; 0.2; 0

Cayo Costa State Park 5.5; 0; 0

North Captive State Park 11.1; 0.1; 0

## Average Nesting Density Lee County

Loggerhead (79-05);  
Green (93-05);  
Leatherback (93-05)  
Nests/km

Captiva Island 12; 0; 0

Sanibel Island West 15.2; 0.1; 0

Sanibel Island 5.9

Sanibel Island East 3.2; 0; 0

Bunch Beach 0; 0; 0

Estero Island 2.7; 0; 0

Lovers Key State Park 6.3; 0.1; 0

Lovers Key 21.8; 0; 0

Big Hickory Island 5.7; 0; 0

Bonita Beach 21.1; 0; 0

Gulf of  
Mexico

© 2006 Europa Technologies  
© 2006 Navteq  
Image © 2006 TerraMetrics

Streaming ||||| 100%

Eye alt 36.52 mi

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



# Average Nesting Density Charlotte County

Loggerhead (85-05);  
Green (93-05);  
Leatherback (93-05)  
Nests/km

Gulf of  
Mexico

Manasota Key 43.2; 0.1; 0

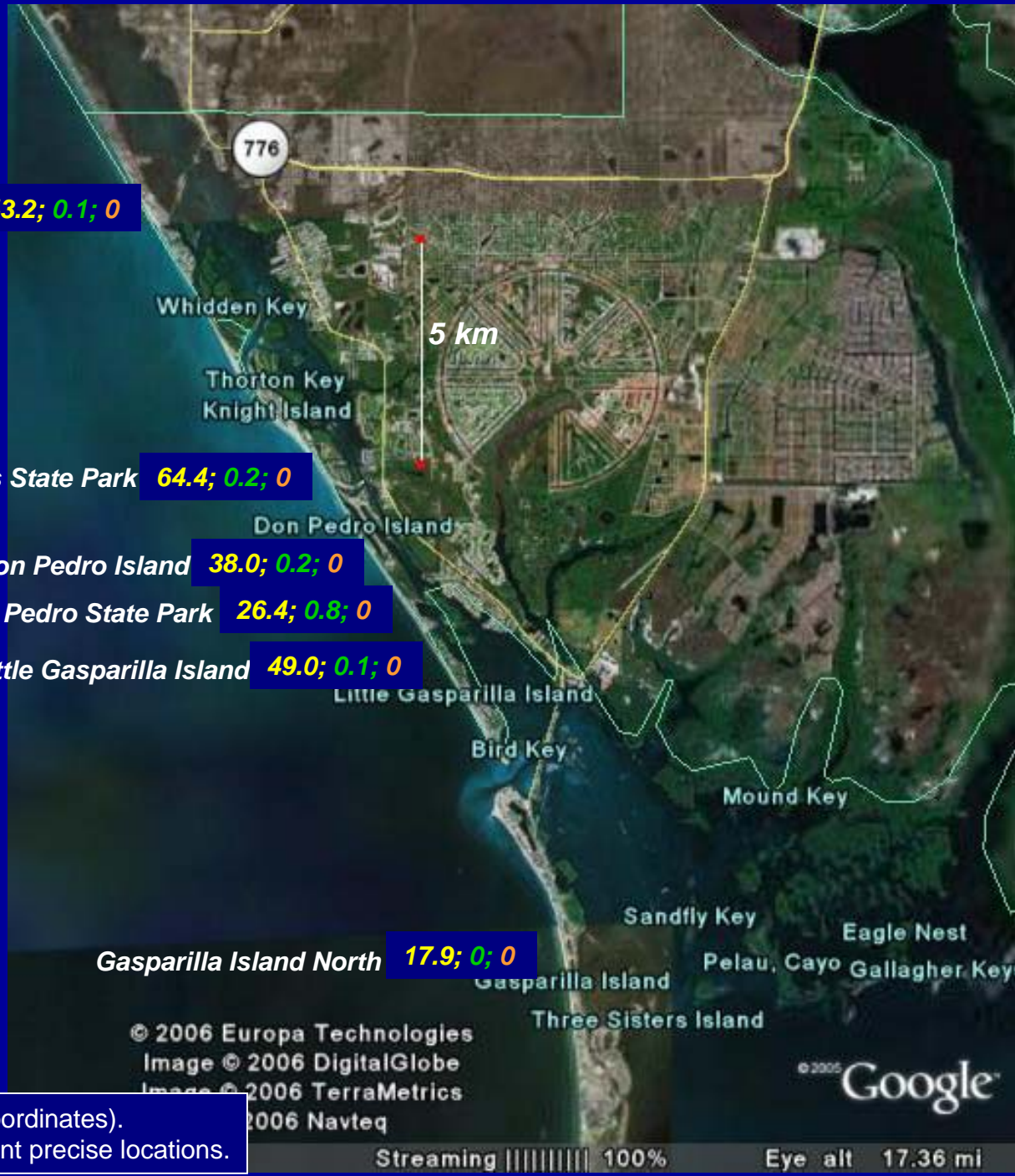
Stump Pass State Park 64.4; 0.2; 0

Don Pedro Island 38.0; 0.2; 0

Don Pedro State Park 26.4; 0.8; 0

Little Gasparilla Island 49.0; 0.1; 0

Gasparilla Island North 17.9; 0; 0



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



# *Sarasota County*

*Gulf  
of  
Mexico*

Longboat Key South 10.0; 0; 0

Nests Density  
Loggerhead  
Green  
Leatherback  
Nests/km

Lido Key 5.6; 0; 0

Siesta Key 17.6; 0; 0

Casey Key 38.8; 0.1; 0

Venice Beaches 22.3; 0; 0

Manasota Key 84.3; 0.2; 0

MANATEE COUNTY

LIDO  
KEY

SARASOTA

SIESTA KEY

VENICE INLET

VENICE

- Civil Works: Current Shore Protection Project
- Civil Works: Shore Protection Study
- Civil Works: Navigation Dredging & Placement



NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.



# Average Nesting Density Sarasota County

*Loggerhead (79-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Gulf of  
Mexico*



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



Nests Density  
**Loggerhead**  
Green  
**Leatherback**  
Nests/km

Tampa Bay

ANNA MARIA ISLAND

Anna Maria Island 10.5; 0; 0

MANATEE RIVER

Gulf  
of  
Mexico

BRADENTON

LONGBOAT  
PASS

 Civil Works: Current Shore Protection Project  
 Civil Works: Shore Protection Study  
 Civil Works: Navigation Dredging & Placement

LONGBOAT  
KEY

Longboat Key North 8.4; 0; 0

SARASOTA COUNTY

*Manatee County*



NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.

# Average Nesting Density Manatee County

*Loggerhead (79-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
*Nests/km*

*Gulf of  
Mexico*

*Anna Maria Island* 10.5; 0; 0

*Longboat Key North* 8.4; 0; 0

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© 2006 DigitalGlobe  
© 2006 TerraMetrics  
© 2006 Navteq

© 2005 Google

Streaming ||||| 100%

Eye all 23.96 mi



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.

# Pinellas & Hillsborough Counties



Gulf of Mexico

-  Civil Works: Current Shore Protection Project
-  Civil Works: Shore Protection Study
-  Civil Works: Navigation Dredging & Placement

NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.

Honeymoon Island State Park 1.1; 0; 0

Caladesi Island State Park 1.5; 0; 0

Nests Density  
Loggerhead  
Green  
Leatherback  
Nests/km

N Pinellas County BCHS 4.6; 0; 0

Mid Pinellas BCHS 6.4; 0; 0

SAND KEY

CLEARWATER BEACH ISLAND

CLEARWATER

ST. PETERSBURG

TREASURE ISLAND

St. Pete Beach 2.6; 0; 0

LONG KEY

1.7; 0; 0

Cabbage/Shell Key

; 0; 0

Shell Island

; 0; 0

Cabbage Key

2.8; 0; 0

Ft. Desoto County Park

Egmont Key 6.2; 0; 0

HILLSBOROUGH COUNTY

EGMONT KEY

Also Proposed, Sand from  
Manatee Harbor Dredging



# Average Nesting Density Pinellas & Hillsborough Counties

*Loggerhead (82-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Gulf of  
Mexico*

*Anclote Key State Park ; 0; 0*

*Honeymoon Island State Park 1.1; 0; 0*

*Caladesi Island State Park 1.5; 0; 0*

*N Pinellas County BCHS 4.6; 0; 0*

*Mid Pinellas BCHS 6.4; 0; 0*

*St. Pete Beach 2.6; 0; 0*

*1.7; 0; 0*

*Cabbage/Shell Key*

*; 0; 0*

*Shell Island*

*; 0; 0*

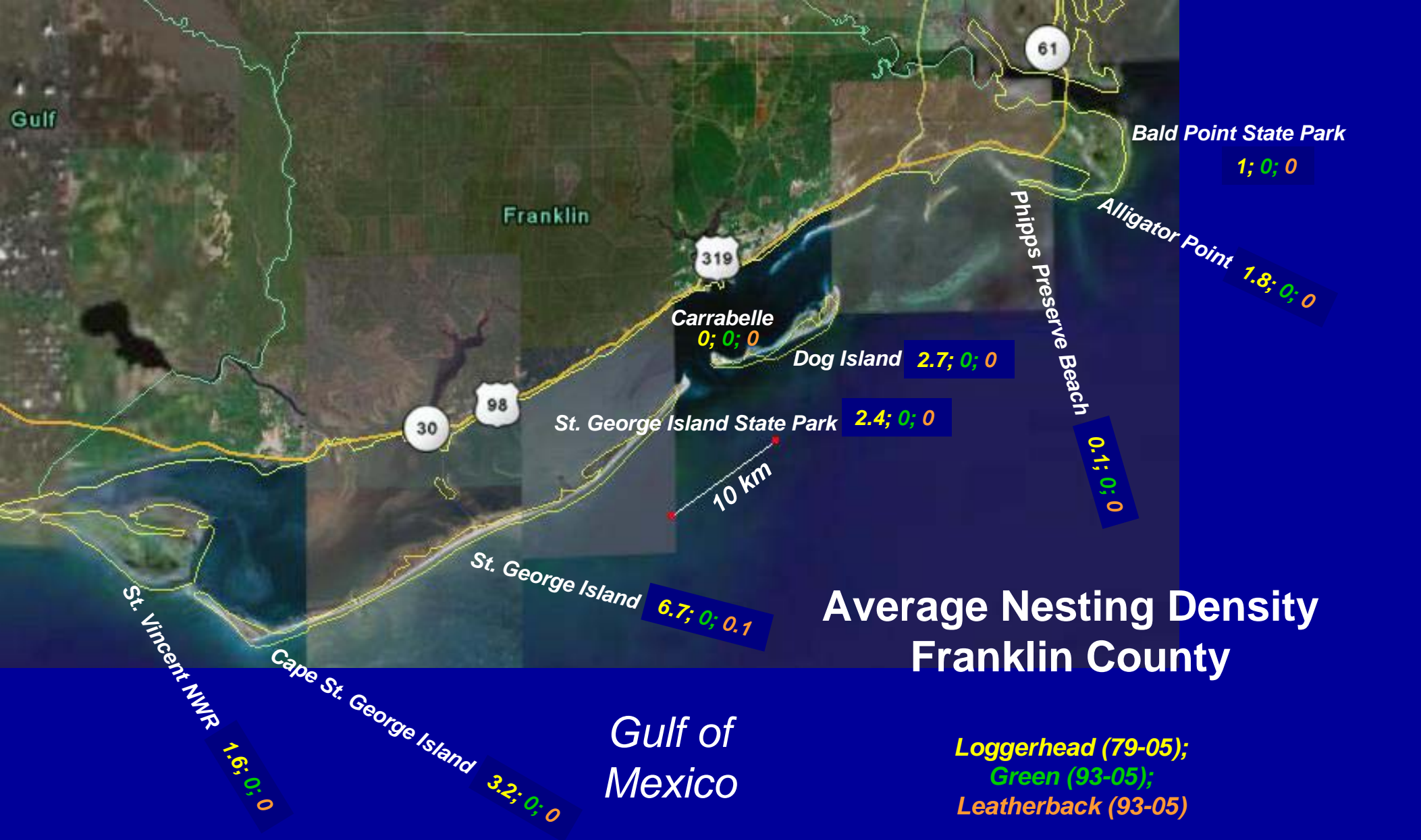
*Cabbage Key*

*Ft. Desoto County Park 2.8; 0; 0*

*Egmont Key 6.2; 0; 0*



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



# Average Nesting Density Gulf County

*Loggerhead (81-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
Nests/km

*Gulf of  
Mexico*



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



# Average Nesting Density Bay County

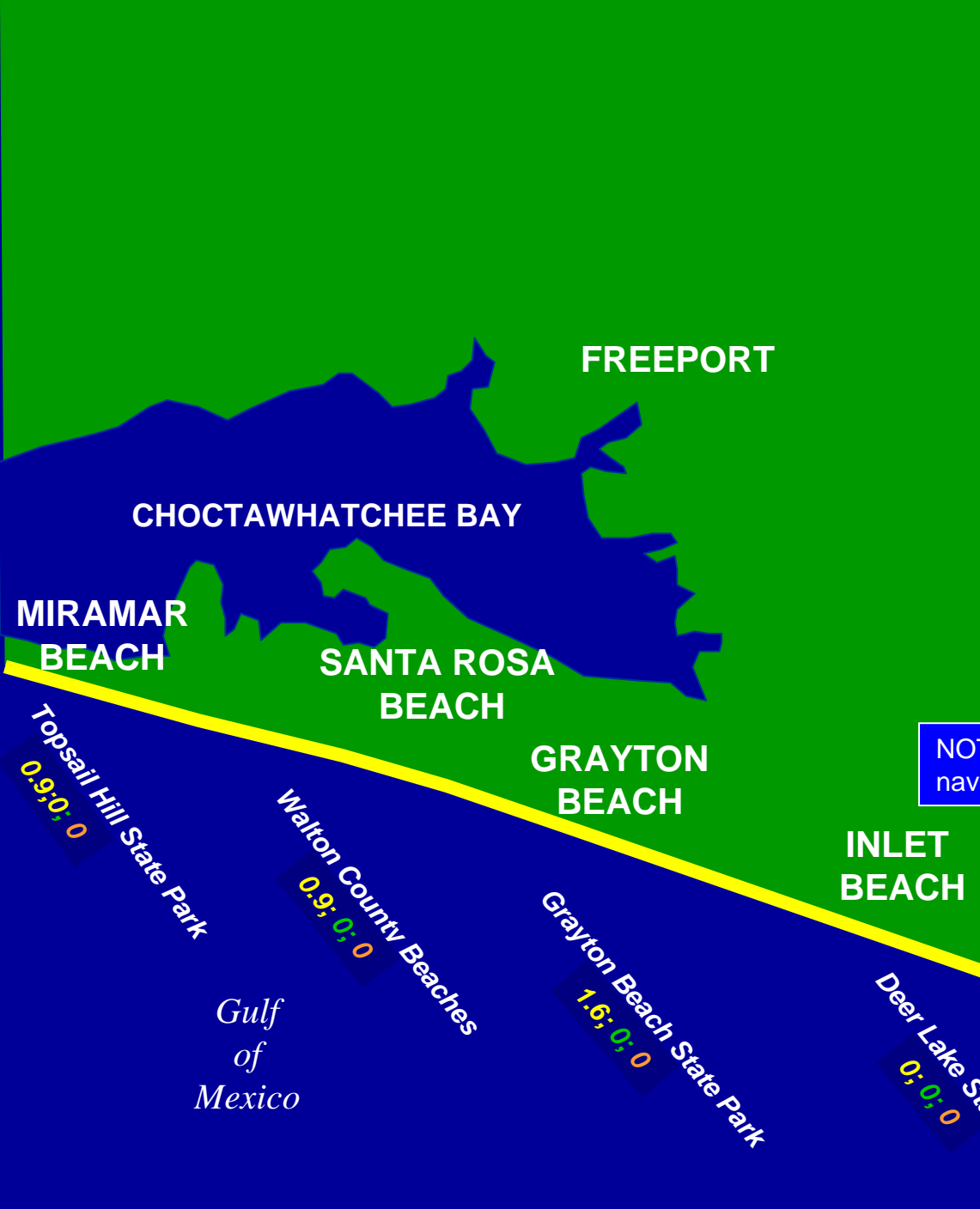
Loggerhead(84-05);  
Green (93-05);  
Leatherback (93-05)  
Nests/km



Gulf of  
Mexico



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



NOTE: See Table 1 for more complete and specific information on navigation projects, shore protection projects, and regulatory actions.



Gulf  
of  
Mexico



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.





## Average Nesting Density Okaloosa County

*Gulf of  
Mexico*

*Loggerhead (83-05);*  
*Green (93-05);*  
*Leatherback (93-05)*  
**Nests/km**

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.



## Average Nesting Density Escambia County

**Loggerhead (86-05);**  
**Green (93-05);**  
**Leatherback (93-05)**  
**Nests/km**

Gulf of  
Mexico

NOTE: Locations are correlated with geographic names (not coordinates).  
Some names are ambiguous. Therefore, they may not represent precise locations.